Index of Claims

|  | Appli | cation/Control | No. |
|--|-------|----------------|-----|
|--|-------|----------------|-----|

09/659,235

Examiner

Dennis M. Butler

Applicant(s)/Patent under Reexamination

O'LEARY, WILLIAM

Art Unit

2115

| √ | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| - | Restricted                     |

| Ν | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Cla   | aim      |        |         |   | C        | ate      | •        |          |          |          |           | Cla      | aim      |           |          |          |          | ate      |         | -       |   | 7      | CI    | aim      |          |          |                    | D                  | ate       | <del></del> |          |          | $\neg$    |
|-------|----------|--------|---------|---|----------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|----------|----------|----------|----------|---------|---------|---|--------|-------|----------|----------|----------|--------------------|--------------------|-----------|-------------|----------|----------|-----------|
|       | -        |        |         |   |          |          |          |          |          |          |           |          |          |           |          |          |          |          |         |         |   | 1      |       | T        | П        |          |                    | T                  | П         | $\neg$      | T        | П        | $\neg$    |
| Final | Original | 5/5/05 |         |   | - 1      |          |          |          | 1        |          |           | <u>a</u> | Original |           |          |          |          |          | ı       |         |   |        | ন্ত   | Original |          |          |                    | - 1                |           |             |          |          |           |
| 這     | Ē        | 5/5    |         |   |          |          |          |          |          |          |           | Final    | ij       |           |          |          |          |          |         |         |   |        | Final | Ē        |          |          |                    |                    |           | -           |          |          | ı         |
|       | 0        |        |         |   |          |          |          |          |          |          |           |          | 0        |           |          |          |          |          |         | .       |   |        |       | 0        |          | j        |                    |                    | -         | - 1         |          |          | - 1       |
|       | 1        | =      |         |   |          |          | 一        |          |          |          |           |          | 51       | =         |          |          | T        |          |         | +       |   | 1      |       | 101      | П        | 寸        | $\dashv$           | ┪                  | _         | 1           | ヿ        | 十        | ┪         |
|       | 2        | =      |         |   |          | T        | 一        |          | П        |          |           |          | 52       | =         | П        |          | $\neg$   | 寸        |         | T       | 1   | 1      |       | 102      |          | $\dashv$ | T                  | 寸                  | $\dashv$  | ┪           | 十        | $\dashv$ | $\exists$ |
|       | 3        | =      | _       | T   | ╛        | 一        | $\neg$   |          |          |          |           |          | 53       | =         | П        | $\neg$   |          | $\neg$   | 1       | 十       |   | 1      |       | 103      |          | $\dashv$ | _                  | 寸                  | 寸         | _           | 十        | $\dashv$ | ᅱ         |
|       | 4        | Ξ      | 一       | T   | T        | コ        |          |          |          |          |           |          | 54       | =         |          | T        |          |          | T       | 1       | $\dashv$  | 1      |       | 104      |          | $\neg$   | 7                  | 7                  | $\dashv$  | 寸           |          | $\dashv$ | $\dashv$  |
|       | 5        | =      |         | Т   | ヿ        |          |          |          | П        |          |           |          | 55       | =         |          |          |          |          |         |         | $\top$  | 1      |       | 105      | П        | 寸        |                    | _                  | T         |             | 寸        | す        | ┪         |
|       | 6        | =      |         | T   |          |          |          |          | П        |          |           |          | 56       | ╒         |          |          |          | ı        |         |         |   | 1      |       | 106      | П        | ╅        | $\neg$             | T                  | 1         | Ť           | $\neg$   | ヿ        | ヿ         |
|       | 7        | =      |         |   |          |          |          |          | П        |          |           |          | 57       | =         |          |          |          |          | $\top$  |         |   | 1      |       | 107      | П        | $\neg$   | $\neg$             | T                  | T         |             | $\dashv$ | 十        | ヿ         |
|       | 8        | =      |         | Т   | П        | $\neg$   |          |          | П        |          |           |          | 58       | =         |          |          |          | $\neg$   | $\neg$  |         |   | 1      |       | 108      |          |          | T                  | T                  | $\neg$    |             |          | 十        | ᅱ         |
|       | 9        | п      |         | Т   |          |          |          |          |          |          |           |          | 59       | =         |          |          | $\neg$   | $\neg$   | 寸       | T       | 丁   | 1      |       | 109      |          | T        | 寸                  | T                  | 寸         | Ť           | 寸        | $\top$   | ヿ         |
|       | 10       | H      |         |   |          |          |          |          |          |          |           |          | 60       | =         |          |          |          |          | 7       | Т       |   |        |       | 110      |          |          | $\exists$          |                    | T         |             | T        | $\neg$   | $\neg$    |
|       | 11       | =      |         | I   |          |          |          |          |          |          |           |          | 61       | =         |          |          | 一        | $\neg$   |         | Т       |   | 1      |       | 111      | $\Box$   | 丁        | $\dashv$           | T                  | T         | 寸           | $\dashv$ | $\top$   | ヿ         |
|       | 12       | =      | $\Box$  |   |          |          |          |          |          |          |           |          | 62       | =         |          |          | ▔        |          |         |         | 1   |        |       | 112      | $\Box$   | $\neg$   | $\neg$             | $\neg$             | 7         |             | T        | ヿ        | ヿ         |
|       | 13       | =      |         | $oldsymbol{\mathbb{I}}$   |          |          |          |          |          |          |           |          | 63       | =         |          |          |          |          | $\neg$  | T       |   | ]      |       | 113      | $\Box$   | $\dashv$ | 寸                  | $\neg$             | 一         |             | 寸        | 十        | ヿ         |
|       | 14       | =      | $\Box$  | $oldsymbol{\mathbb{I}}$   |          | $\Box$   |          |          |          |          |           |          | 64       | =         |          |          | $\Box$   | $\Box$   | $\neg$  | $\top$  | Т   | ]      |       | 114      |          | $\neg$   |                    | $\neg$             | 7         | $\neg$      | 丁        | $\top$   | ヿ         |
|       | 15       | =      | $\Box$  | $oxed{oxed}$  |          | $\Box$   |          |          |          |          |           |          | 65       | =         |          |          |          | $\Box$   |         |         | $\Box$  | ]      |       | 115      |          | 寸        | 寸                  | $\neg$             | $\dashv$  | 寸           | 寸        | $\top$   | ヿ         |
|       | 16       | =      |         | $oldsymbol{ol}}}}}}}}}}}}}} $ |          | $\Box$   | $\Box$   |          |          |          |           |          | 66       | =         |          |          |          | ╛        |         |         | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | ]      |       | 116      |          | $\Box$   |                    | $\Box$             |           |             |          | $\top$   | ヿ         |
|       | 17       | =      |         | $oldsymbol{ol}}}}}}}}}}}}}} $ | $\Box$   |          |          |          |          |          |           |          | 67       |           |          |          |          |          | T       |         |   | ]      |       | 117      |          | T        | T                  | $\neg$             | $\neg$    |             | $\dashv$ | $\top$   | $\neg$    |
|       | 18       | =      |         |   |          |          |          |          |          |          |           |          | 68       |           |          |          |          |          |         |         | 1   |        |       | 118      |          | T        |                    | T                  | $\exists$ | 一           | ヿ        | $\neg$   |           |
|       | 19       | =      |         |   |          |          |          |          |          |          |           |          | 69       |           |          |          |          |          |         | T       |   | 1      |       | 119      | Ī        |          | T                  | $\neg$             | T         |             | ヿ        | 7        | コ         |
|       | 20       | =      |         |   |          |          |          |          |          |          |           |          | 70       |           |          |          | $\neg$   |          |         |         |   |        |       | 120      |          | $\neg$   | $\neg$             |                    | T         | T           | 丁        | 丁        | ヿ         |
|       | 21       | =      |         |   |          | $\perp$  |          |          |          |          |           |          | 71       |           |          |          |          |          |         |         |   | ]      |       | 121      |          |          |                    | $\exists$          | T         | 寸           | 丁        | $\neg$   | ヿ         |
|       | 22       | Ξ      | $\perp$ | $\perp$   | $\perp$  |          |          |          |          |          |           |          | 72       |           |          |          |          |          |         | Т       |   | ]      |       | 122      |          |          |                    | T                  | T         | $\neg$      | $\neg$   | Т        | $\neg$    |
|       | 23       | =      | $\perp$ | $\perp$   | $\perp$  | _        |          |          |          |          |           |          | 73       |           |          |          |          |          |         |         |   |        |       | 123      |          |          |                    |                    | $\Box$    |             | П        |          |           |
|       | 24       | =      | $\perp$ |   | _        | $\Box$   |          |          |          |          |           |          | 74       |           |          |          |          |          | $\perp$ |         |   |        |       | 124      |          | П        |                    |                    | $\neg$    |             | T        | T        |           |
|       | 25       | =      |         |   | $\dashv$ | $\perp$  |          |          |          |          |           |          | 75       |           |          |          |          |          |         |         |   |        |       | 125      |          | П        |                    | П                  | П         | П           | $\neg$   | Т        | П         |
|       | 26       | =      | - 12    | 4   |          |          | _        |          | Ш        | _        |           |          | 76       |           |          |          |          |          |         |         |   | ]      |       | 126      |          |          |                    |                    |           |             |          | $\Box$   |           |
|       | 27       | =      |         | _   | _        | _        | $\perp$  | _        |          | _        |           |          | 77       |           | $\Box$   |          |          |          |         | $\perp$ |   |        |       | 127      |          |          |                    |                    |           |             |          |          |           |
|       | 28       | =      | _       | 4   | _        | _        | $\dashv$ | _        |          | _        |           |          | 78       |           |          |          |          |          |         |         |   |        |       | 128      |          |          |                    |                    |           |             |          | $\Box$   |           |
|       | 29       | =      |         | 4   | 4        | 4        | 4        | _        | Ш        | Ц        |           | ]        | 79       |           |          |          | $\Box$   |          | $\perp$ |         |   |        |       | 129      |          |          |                    |                    |           |             |          |          |           |
|       | 30       | =      |         | 4   | _        | 4        | _        |          |          |          |           |          | 80       |           |          |          | _        | _        | $\perp$ |         |   |        |       | 130      |          |          |                    |                    |           |             |          | $\Box$   |           |
|       | 31       | =      |         | $\perp$   | 4        | _        | _        | _        | $\Box$   |          |           |          | 81       |           |          |          | _        | _        | $\perp$ | $\perp$ |   |        |       | 131      |          | $\perp$  |                    |                    |           |             |          |          |           |
|       | 32       | =      | -       | 4   | _        | 4        | _        | _        | $\sqcup$ |          |           |          | 82       | $\square$ | _        | _        |          | _        | $\perp$ | $\perp$ | +   |        |       | 132      | [        | $\perp$  |                    |                    | $\perp$   | $\Box$      | $\perp$  | $\perp$  | $\Box$    |
| _     | 33       | =      | _       | 4   | +        | -        | _        | _        |          |          |           |          | 83       | _         |          | _        | _        | 4        | 4       | $\bot$  | $\bot$  |        |       | 133      | _        | $\dashv$ |                    | $\perp$            | $\perp$   | _           | $\perp$  | $\perp$  | _         |
|       | 34       | =      | +       | +   | $\dashv$ | -        |          | _        | $\dashv$ | _        | iii       |          | 84       | _         | _        | $\dashv$ |          | _        | $\perp$ | $\perp$ | +   |        |       | 134      | 4        | 4        | -                  | $\perp$            | $\perp$   | $\perp$     | $\dashv$ | $\perp$  | Ц         |
| -     | 35       | =      | +       | +   | -        | $\dashv$ | $\dashv$ | _        | _        | ᆜ        | :::: <br> |          | 85       |           | _        |          | _        | $\perp$  | $\bot$  | $\perp$ |   |        |       | 135      | _        | _        | $\perp$            | $\perp$            | $\perp$   | $\dashv$    | $\perp$  | $\perp$  | Ц         |
|       | 36       | =      | _       | +   | $\dashv$ | $\dashv$ | $\dashv$ |          | 4        |          |           |          | 86       |           | _        | _        | _        | $\perp$  | 4       | $\bot$  | $\bot$  |        |       | 136      | _        | $\perp$  | $\perp$            | $\perp$            | 4         | _           | $\perp$  | $\perp$  | _         |
|       | 37       | =      | +       | +   | -+       | +        | -        | $\dashv$ | 4        | _        |           |          | 87       | _         | _        |          | 4        | 4        | 4       | $\bot$  | $\bot$  |        |       | 137      | $\dashv$ | _        | 4                  | 4                  | 4         | _           | 4        | $\perp$  | $\Box$    |
|       | 38       | =      | +       | +   | -        | $\dashv$ | -        | $\dashv$ |          | _        |           |          | 88       | _         | _        | _        | $\dashv$ | 4        |         | 4       | —   |        |       | 138      | $\dashv$ | $\dashv$ | 4                  | $\perp$            | $\perp$   | _           |          | $\perp$  | _         |
|       | 39       | =      | +       | +   | -        | $\dashv$ | +        | $\dashv$ | _        | _        |           |          | 89       |           | 4        | 4        |          | $\dashv$ |         | 4       | +   |        |       | 139      | $\dashv$ | $\dashv$ | 4                  | $\dashv$           | 4         | _           | $\dashv$ | $\bot$   | $\dashv$  |
|       | 40       | =      | +       | +   | 4        | +        | -        | -        | _        |          | ,         |          | 90       |           | 4        |          |          | $\dashv$ | 4.      | 4       | —   |        |       | 140      | _        | 4        | _                  | 4                  | 4         | _           | _        | $\bot$   | _         |
|       | 41       | =      | +       | +   | +        | -        | $\dashv$ | $\dashv$ | $\dashv$ | _        |           |          | 91       | _         | $\dashv$ | $\dashv$ | -        | 4        | +       | +       | —   |        |       | 141      | $\dashv$ | _        | _                  | 4                  | 4         | 4           | 4        | $\bot$   | $\dashv$  |
|       | 42<br>43 |        | +       | +   | +        | +        |          | -        |          |          | -         |          | 92       |           | -        | $\dashv$ | $\dashv$ | +        | +       | +       | -   |        |       | 142      | -        | +        |                    | 4                  | 4         | _           | 4        | $\perp$  | _         |
|       |          | =      | +       | +   | +        | $\dashv$ | $\dashv$ | -        | 4        | _        |           |          | 93       | _         | _        | $\dashv$ | $\dashv$ | +        | +       | +       | +   |        |       | 143      | _        | 4        | _                  | 4                  | 4         | 4           | $\dashv$ | $\dashv$ | _         |
|       | 44<br>45 | =      | +       | +   | +        | +        | $\dashv$ | $\dashv$ | $\dashv$ |          | <br>      |          | 94       | -         | $\dashv$ | $\dashv$ | $\dashv$ | -+       | +       | +       | +   |        |       | 144      | $\dashv$ | 4        | $\dashv$           | $\dashv$           | +         | $\dashv$    | 4        | $\dashv$ | _         |
|       |          | =      | +       | +   | +        | +        | +        | $\dashv$ | $\dashv$ | $\dashv$ | <b> </b>  |          | 95       | -         | $\dashv$ | $\dashv$ | -        | +        | +       | +       | +-  |        |       | 145      | $\dashv$ | 4        | $\dashv$           | 4                  | +         | $\dashv$    | +        | +        | 4         |
|       | 46       | ╗      | +       | +   | +        | +        | +        | $\dashv$ |          |          |           |          | 96       |           | 4        | $\dashv$ | $\dashv$ | $\dashv$ | +       | +       |   |        |       | 146      |          | _        | 4                  | $\bot$             | 4         | $\perp$     | $\dashv$ | $\dashv$ | _         |
|       | 47<br>48 | 딁      | +       | +   | +        | $\dashv$ | +        | $\dashv$ | $\dashv$ | -        | ŀ         |          | 97       |           | -        | $\dashv$ | -        | +        |         | +       | +   |        |       | 147      | _        | $\dashv$ | 4                  | 4                  | 4         | _           | $\dashv$ | 4        | 4         |
|       |          | -      | +       | +   | +        | -+       | +        | $\dashv$ | $\dashv$ | $\dashv$ |           |          | 98       | $\dashv$  |          | $\dashv$ |          | +        | +       | 4-      | +   |        |       | 148      |          | _        | 4                  | $\bot$             | $\bot$    | $\dashv$    | $\bot$   | +        | _         |
|       | 49<br>50 | =      | +       | +   | +        | +        | +        | $\dashv$ | $\dashv$ | $\dashv$ | -         |          | 99       |           | -        | -        | -+       | +        | +       | - -     | +   |        |       | 149      | 4        | -        | _                  | 4                  | 4         | $\dashv$    | +        | +        | _         |
|       | υ        | =1     |         | ┸   |          | $\perp$  |          |          | 1        | :        | :::[      |          | 100      |           |          |          |          | L        | $\perp$ | L_      | لل  | :::::[ |       | 150      |          |          | $oldsymbol{\perp}$ | $oldsymbol{\perp}$ | 丄         | $\perp$     | 丄        | $\perp$  |           |